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rect. The membership committee reported 250 active members and 52 new members.

The following was the report of the nominating committee:

President, H. J. Harnly; first vice-president, Mary T. Harman; second vice-president, L. D. Wooster; treasurer, L. D. Havenhill; secretary, E. A. White; additional members of the executive council, J. E. Ackert, W. B. Wilson, Hazel Branch, Wm. Goldsmith. By motion these nominees were elected.

The necrology committee reported that Dean Sayre and Dr. Keller passed away during the past year.

The secretary reported that several copies of the Transactions had been sent out and much material received. The Academy library is still on the fifth floor of Fraser Hall, but the pamphlets are being moved to the library building and being classified. The books will be moved as soon as more stocks are built. For the last year the interest taken in the Academy, both by members and outsiders, has been greater than ever before.

The meeting adjourned.

E. A. WHITE, Secretary

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## FIFTY-NINTH ANNUAL MEETING

### KANSAS ACADEMY OF SCIENCE

Lawrence, April 15 and 16, 1927

#### OFFICERS FOR 1926-1927

H. J. Harnly, McPherson .....	President
Mary T. Harman, Manhattan .....	First Vice-President
L. D. Wooster, Hays .....	Second Vice-President
L. D. Havenhill, Lawrence .....	Treasurer
E. A. White, Lawrence .....	Secretary
J. E. Ackert, Hazel Branch, W. B. Wilson and Wm. Goldsmith,	
Additional Members of the Executive Council	

#### PROGRAM

##### Friday, April 15, 1927

- 10:00 a. m. Business. Reading of Papers.  
 1:30 p. m. Business. Reading of Papers.  
 8.00 p. m. Presidential Address by H. J. Harnly: "Longevity and Other Matters."  
 Address by Dr. Kurtz: "The Scientific Method."

##### Saturday, April 16, 1927

- 8:30 a. m. Business. Reading of Papers.

## PAPERS SUBMITTED FOR THE FIFTY-NINTH SESSION

1. (a) Chapter on Farm and Home Economic Advancement. E. H. S. Bailey.  
(b) How the Chemist is Conserving the Food Supply. E. H. S. Bailey.
2. Scientific Methods in Commercial Research as Exemplified in Wheat Price Studies. R. M. Green.
3. (a) Viscosities and Electrical Conductivity of Stannic Chloride-Acetic Acid Systems. John Strong and J. D. Stranathan.  
(b) Lecture Experiment with the Atmophone. John Strong.
4. Conditions in Hibernation in *Citellus tridecemlineatus pallidus*. George E. Johnson.  
(Jour. Exp. Zool., Vol. 50, pp. 15-30, 1928)
5. Ovarian Grafting in Guinea Pigs. Earl Herrick.  
(Abstract published in this volume of the Transactions)
6. The Anterior Pituitary Body and Hibernation. Ben R. Coonfield.
7. Botanical Notes for 1926. Frank U. G. Agrelus.
8. The Stages in the Development of Life. L. C. Wooster.  
(Teaching, Kansas State Teachers College of Emporia, 1928)
9. (a) K. S. A. C. Botanical Notes, 1926. Frank C. Gates.  
(Published in this volume of the Transactions)  
(b) Cladonia and Seedling Mortality. Frank C. Gates.
10. The Embryo of a Squid. Mary T. Harman and Ann Hinshaw Gardiner.  
(Pug. Sound Biol. Sta. Vol. 5)
11. The Development of the Spermatozoon of *Cavia cobaya* (the Common Guinea Pig). Mary T. Harman and Frank Root.  
(Biol. Bull.—In press)
12. The Efficacy of Cod Liver Oil in Building Up Resistance to Lung and Nasal Affections in Guinea Pigs and Rabbits. Heman L. Ibsen.
13. The Application of the Scientific Method to Personality Problems in High School and College Students. Drs. Karl and Wm. Menninger.
14. The Behavior of Certain Lyophile Colloids in Liquid Ammonia. Robert Taft.
15. Hybrid Vigor in Poultry. D. C. Warren.  
(Poultry Science, Vol. 7, pp. 1-8, 1927)
16. Report of Some Distributional Studies of Aquatic Hemiptera. H. B. Hungerford.
17. (a) The effect of a Mixture of Argon and Oxygen and a Mixture of Helium Upon Animal Life. J. W. Hershey.  
(Abstract published in this volume of the Transactions)  
(b) A Film. Flames of Atomic Hydrogen. J. W. Hershey.
18. A Summary of the Courses in Entomology in American Institutions of Higher Learning. Roger C. Smith.  
(Kans. State. Agr. Coll. Bull., Vol 12, No. 1, 23 pages, 1928)
19. The Genus *Driotura*. Paul B. Lawson.
20. Further Studies of the Reaction of Opalinas to Various Laboratory Media with Special Reference to Their Longevity. Mary E. Larson and Fred W. Allen, Jr.
21. Nectar Collection by the Honeybee. R. L. Parker.
22. Bird Investigations for 1926. L. D. Wooster.
23. Effect of Warm Moist Air on the Surface of the Body. G. H. Bretnall.
24. A New Record to the Parasites of *Pholus achemon* Drury. Hazel E. Branch.  
(Published in this volume of the Transactions)
25. Why Do We Age? J. M. McWharf.
26. (a) Additional Evidence of an Ice Invasion of the Kansas River in Eastern Kansas. Walter H. Schoewe.  
(b) Erosional Pillars. Walter H. Schoewe.
27. Some Entomological Observations in Republic of Honduras. Reginald H. Painter.  
(Annual Report of Med. Dept. of United Fruit Co., 1926, pp. 245-262)
28. A Preliminary Contribution to the Life History of the Timber Rattlesnake. Howard K. Gloyd.
29. Notes on the Growth of the Snapping Turtle. C. W. Clanton.
30. (a) A New Aerolite from San Antonio, Texas.  
(b) Observations on Texas Meteorites.  
(c) Pleistocene Footprints from Central Arizona.  
(d) Fossil Footprints in the Big Bend Country in West Texas.  
(e) Days with the Wild Turkey in Texas.  
(f) The Vanishing Whooping Crane. H. H. Nininger.
31. 1926 Collecting on Kansas Coleoptera. Coleoptera as Dwellers in the Home of Other Insects and in the Burrows of Animals and Insects. W. Knaus.

32. The Sugar Acids Preparation of 1, 2 Dihydroxy Butyric Acids. Sybil Woodruff.
33. Polyandry in the Grouse Locust (*Paratettix texanus*) with Notes on Inheritance of Acquired Characters. R. K. Nabours.  
(*Amer. Naturalist*, Vol. 41, pp. 531-538, 1927)
34. Parasitism and the Thyroid Gland. J. E. Ackert and G. F. Otto.
35. Parasitism and Vitamin D in Chickens. L. A. Spindler.  
(*Jour. Parasit.*, Vol. 14, p. 133, 1927 —abstract)
36. (a) The Polvaders Meteorite.  
(b) Notes on the Cornfields Region, Arizona, a continuation of 1925 Report.  
(Published in this volume of the Transactions)  
(c) Glories of the Canyon of the Colorado. Its Proposed High Bridge and Colossal Dam. Albert B. Reagan.
37. An Analogue of the Cupric Ammonia Ion in Acetic Acid Solution. Arthur W. Davidson.  
(Abstract published in this volume of the Transactions)
38. Research at University of Kansas by Faculty and Students. R. Q. Brewster.
39. Research at Kansas State Agricultural College. J. E. Ackert.
40. Research at Kansas State Teachers College, Emporia. Frank U. G. Agrelius.
41. Research at Kansas State Teachers College, Pittsburg. J. A. Yates.
42. Research at Kansas State Teachers College, Hays. Roy Rankin.
43. Research at Baker University. E. J. Cragoe.
44. Research at Washburn College. Wm. M. Harshbarger.
45. Research at Ottawa University. Wm. B. Wilson.
46. Research at McPherson College. J. Willard Hershey.
47. Research at Southwestern College, Winfield. Wm. M. Goldsmith.
48. The Replaceability of Certain Methylene Groups, and the Relation of Constitution to the Stability of the C Equals C Linkage. Harvey W. Moyer and F. B. Dains.
49. The Synthesis and properties of the Mono-chloro-iodo-toluenes. Henry J. Long and F. B. Dains
50. A Study of Height-Weight-Age Ratio in Indian Children. Emily Ferris.

#### MINUTES OF THE FIFTY-NINTH ANNUAL MEETING

The meeting on Friday, April 15, was called to order by the president, H. J. Harnly. President Harnly appointed the following committees:

Program: L. D. Wooster, Nininger.

Resolutions: Rankin, Yates.

Auditing: Warren, Hershey.

Nominations: Ackert, Schoewe, Agrelius.

Printing: White, Nabours, Smith, Wilson, Manchester.

Press: Knaus.

Parks: McColloch.

Necrology: Bailey, Willard.

Papers were then read until 12:00 o'clock.

The afternoon meeting was called to order at 2:00 p. m. by the president. Dr. Taft explained there would be no banquet this year, but that he had made arrangements for a get-together supper at the Thimble Tea Room at 6:00 o'clock.

Mr. Manchester, Director of Libraries at the University, led a short discussion regarding the Academy of Science Library. The books belonging to the Academy are now housed on the 5th floor of Fraser Hall, due to lack of space in Watson Library. The foreign exchange list is rapidly becoming decreased due to lack of recently published volumes. Members of the Academy were invited by Mr. Manchester to visit the Academy of Science library in Fraser Hall.

Dr. Bailey suggested that the Academy take over the publication of the Transactions.

The committee on Publications was instructed to study the question of financing the Academy publications and to report at the meeting next year.

The life members were invited to have their pictures taken and excused themselves from the meeting. Dr. Mary T. Harman, vice president, presided in place of H. J. Harnly, who is a life member.

The meeting Saturday morning, April 16, was called to order by President Harnly.

The resolutions committee extended thanks to Dr. Kurtz for his address, to the faculty of the University for courtesies shown the Academy, commended the action of the officers of the Academy, Librarian Manchester, and Chancellor Lindley, for their efforts to secure publication, and expressed appreciation at the presence of a number of life members at the meeting.

The auditing committee reported the books of the treasurer to be correct.

The following was the report of the nominating committee: President, Mary T. Harman; first vice-president, L. D. Wooster; second vice-president, W. B. Wilson; treasurer, L. D. Havenhill; secretary, E. A. White; additional members of the executive council, H. J. Harnly, J. E. Ackert, Hazel Branch, and G. H. Bretnall. By motion all of these officers were elected.

By motion it was decided that statements of the annual dues be sent to the members early in October to slightly precede the statements of the American Association for the Advancement of Science; and that directions be given for the method of payment of combined dues.

Mr. Warren Fred Farager was elected a life member of the Academy.

The Academy voted to accept the invitation of the Wichita Chamber of Commerce and the University of Wichita to hold the next meeting in Wichita.

A motion that the committee on printing be increased to five members, the president to appoint the additional members, was carried.

It was voted to get an opinion from the attorney general as to whom the library of the Academy of Science belongs.

By motion the committee on printing was instructed to place the Academy of Science Library in one of the institutions of the state which would properly house it and would pay some funds into the Academy for the exchanges received through the Transactions, which would pay for the publication of the Transactions.

It was voted that the Kansas Academy of Science recommend to the State Fish and Game Commission that the commission take under advisement the matter of stocking suitable portions of the state with wild turkey.

By motion it was provided that papers Nos. 38 to 47 inclusive regarding research work at the various institutions be omitted and that abstracts of these papers be mimeographed and sent to the members of the Academy.

E. A. WHITE, Secretary

### Report of the Treasurer

#### Receipts:

Balance carried forward .....	\$219.00
37 dues @ \$1.00 .....	37.00
3 dues @ 50c (A. A. A. S.) .....	1.50
Interest on \$200.00 @ 4 per cent for 2 years .....	16.00
<b>Total receipts to April 15, 1927 .....</b>	<b>\$273.50</b>

#### Expenses:

H. J. Harnly, expenses to Lawrence .....	\$13.58
Stenographic work, Winfield .....	5.00
Printing and telegram, Winfield .....	4.65
Secretary's expenses to Winfield .....	25.54
Stamps and post cards .....	15.50
Expenses executive committee, Topeka .....	3.65
President's expenses, Topeka .....	10.61
Printing, etc., Lawrence .....	11.75
Office and stenographic work .....	30.00

<b>Total expenses to April 15, 1927 .....</b>	<b>\$120.28</b>
<b>Cash on hand April 15, 1927 .....</b>	<b>\$153.22</b>

L. D. HAVENHILL, Treasurer

#### From Minutes of the Executive Council, January 10, 1925, Lawrence

The members present were Chairman Niniger, Ackert, Willard, Sayre, White, Agrelius, Nabours, Bailey for Cady, and Havenhill.

The executive council instructed the legislative committee to prepare a brief to be sent to Dr. Willard and Professor Agrelius, who were to see their legislators concerning the introduction of a bill to secure the Academy printing. Mr. Spilman of Manhattan was to be asked to assist in drafting the bill and a copy of the bill was to be sent to Professor Agrelius for use by Senator Parker.

L. D. HAVENHILL, Acting Secretary